

What is claimed is:

1. A magnetic recording/reproducing apparatus used with a magnetic tape cassette having a pair of tape reels, comprising:

first and second reels for driving the tape reels of the magnetic tape cassette;

a first reel gear connected to the first reel and being rotatable about the same center axis as that of the first reel;

a second reel gear connected to the second reel and being rotatable about the same center axis as that of the second reel;

an intermediate gear arranged between the first reel gear and the second reel gear to be apart from the first reel gear, the intermediate gear driving the second reel gear;

a swing arm arranged between the first reel gear and the intermediate gear, the swing arm being swingable between the first reel gear and the intermediate gear about a swing central axis;

a swing gear attached to the swing arm and being kept in contact with at least one of the first reel gear and the intermediate gear; and

a drive gear being rotatable about the swing central axis, and being in contact with the swing gear to drive the swing gear;

wherein where the first reel is driven through the swing gear and the first reel gear by bringing the swing gear into contact with the first reel gear, the drive gear rotates so

that a contact area between the swing gear and the drive gear moves from the intermediate gear side toward the first reel gear side; and

where the second reel is driven through the swing gear, the intermediate gear and the second reel gear by bringing the swing gear into contact with the intermediate gear, the drive gear rotates so that the contact area between the swing gear and the drive gear moves from the first reel gear side toward the intermediate gear side.

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2. An electric apparatus comprising:

a first gear;

a second gear arranged apart from the first gear;

a swing arm arranged between the first gear and the second gear, the swing arm being swingable between the first gear and the second gear about a swing center axis;

a swing gear attached to the swing arm and being kept in contact with at least one of the first reel gear and the second reel gear; and

a drive gear being rotatable about the swing central axis for driving the swing gear, and being in contact with the swing gear.

3. The electric apparatus according to claim 2, wherein where

the first gear is driven by bringing the swing gear into contact

with the first gear, the drive gear rotates so that a contact area between the swing gear and the drive gear moves from the second gear side toward the first gear side; and

where the second gear is driven through the swing gear  
5 by bringing the swing gear into contact with the second gear, the drive gear rotates so that a contact area between the swing gear and the drive gear moves from the first gear side toward the second gear side.

10 4. The electric apparatus according to claim 2, wherein the swing center axis is arranged at one end of the swing arm; and the swing gear is arranged at the other end of the swing arm, which is opposite to the one end of the swing arm.

15 5. The electric apparatus according to claim 2, further comprising first and second reels for rotating a pair of tape reels of a magnetic tape cassette;

wherein the first gear driving the first reel; and the second gear driving the second reel.

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